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AMENDMENTS TO THE CLAIMS:

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Please cancel claim 9 without prejudice or disclaimer, and amend the claims as follows:

1. (Currently Amended) An ink jet head, comprising:
 - a chamber plate comprising a plurality of pressurizing chambers formed therein for storing an ink;
 - a vibrating plate bonded to the chamber plate;
 - a housing having an ink flow path through which an ink is supplied into the pressurizing chambers;
 - an orifice through which an ink is ejected from the pressuring chambers; and
 - a longitudinal vibration mode piezoelectric element for generating pressure under which an ink droplet is ejected through the orifice, the longitudinal vibration mode piezoelectric element being connected to a structure other than the chamber plate,
 - wherein a thickness of the vibrating plate is from 5 μm to 10 μm , and
 - wherein the longitudinal vibration mode piezoelectric element expands or contracts when a potential difference is applied to the piezoelectric element.
2. (Previously Presented) An ink jet head comprising:
 - a chamber plate comprising a plurality of pressuring chambers formed therein for storing an ink;
 - a vibrating plate bonded to the chamber plate;
 - a housing having an ink flow path through which an ink is supplied into the pressuring chambers;
 - an orifice through which an ink is ejected from the pressuring chambers; and

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a longitudinal vibration mode piezoelectric element for generating pressure under which an ink droplet is ejected through the orifice,
wherein a thickness of the vibrating plate is from 5 μm to 10 μm , and
wherein a ratio of the thickness of the vibrating plate to a width of the pressurizing chamber is 0.03 or less.

3. (Previously Presented) The ink jet head as claimed in claim 1, wherein the vibrating plate comprises a metal.

4. (Previously Presented) The ink jet head as claimed in claim 1, wherein a solution having a viscosity of from 5 mPa·s to 25 mPa·s is ejected.

5. (Currently Amended) An ink jet type droplet ejection device, comprising:
an ink jet head;
an ejection substrate disposed opposed to the ink jet head; and
a mechanism for moving one of the ink jet head and the ejection substrate with respect to the other,

wherein the ink jet head comprises:
a chamber plate comprising a plurality of pressurizing chambers formed therein for storing an ink;
a vibrating plate having a thickness of from 5 μm to 10 μm bonded to the chamber plate;
a housing having an ink flow path through which an ink is supplied into the pressurizing chambers;
an orifice through which an ink is ejected from the pressurizing

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chambers; and

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a longitudinal vibration mode piezoelectric element for generating pressure under which an ink droplet is ejected through the orifice, the longitudinal vibration mode piezoelectric element being connected to a structure other than the chamber plate, and wherein the longitudinal vibration mode piezoelectric element expands or contracts when a potential difference is applied to the piezoelectric element.

6. (Previously Presented) An ink jet type droplet ejection device, comprising:
 - an ink jet head;
 - an ejection substrate disposed opposed to the ink jet head; and
 - a mechanism for moving one of the ink jet head and the ejection substrate with respect to the other,

wherein the ink jet head comprises:

 - a chamber plate comprising a plurality of pressuring chambers formed therein for storing an ink;
 - a vibrating plate having a thickness of from 5 μm to 10 μm bonded to the chamber plate;
 - a housing having an ink flow path through which an ink is supplied into the pressuring chambers;
 - an orifice through which an ink is ejected from the pressuring chambers; and
 - a longitudinal vibration mode piezoelectric element for generating pressure under which an ink droplet is ejected through the orifice,

wherein a ratio of the thickness of the vibrating plate to a width of the pressurizing chamber is 0.03 or less.

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7. (Previously Presented) The ink jet head type droplet ejection device as claimed in claim 5, wherein the vibrating plate comprises a metal.

8. (Previously Presented) The ink jet head type droplet ejection device as claimed in claim 5, wherein a solution having a viscosity of from 5 mPa·s to 25 mPa·s is ejected.

9. (Canceled)

10. (Previously Presented) The ink jet head as claimed in claim 1, further comprising: a plurality of longitudinal vibration mode piezoelectric elements.

11. (Previously Presented) The ink jet head as claimed in claim 10, wherein the longitudinal vibration mode piezoelectric elements are disposed at an equal interval.

12. (Previously Presented) The ink jet head as claimed in claim 10, further comprising: a piezoelectric element fixing member for connecting the longitudinal vibration mode piezoelectric elements to each other.

13. (Currently Amended) ~~The ink jet head as claimed in claim 1, further comprising:~~
An ink jet head, comprising:

a chamber plate comprising a plurality of pressurizing chambers formed therein for storing an ink;

a vibrating plate bonded to the chamber plate;

a housing having an ink flow path through which an ink is supplied into the pressurizing chambers;

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an orifice through which an ink is ejected from the pressuring chambers;
a longitudinal vibration mode piezoelectric element for generating pressure under
which an ink droplet is ejected through the orifice, the longitudinal vibration mode
piezoelectric element being connected to a structure other than the chamber plate,
wherein a thickness of the vibrating plate is from 5 μm to 10 μm ; and

signal input terminals disposed on opposing sides of the longitudinal vibration mode piezoelectric element to provide a voltage to the longitudinal vibration mode piezoelectric element.

14. (Previously Presented) The ink jet head as claimed in claim 1, further comprising:
an elastic adhesive disposed between the longitudinal vibration mode piezoelectric element and the vibrating plate.

15. (Previously Presented) The ink jet head type droplet ejection device as claimed in claim 5, further comprising:
a plurality of longitudinal vibration mode piezoelectric elements.

16. (Previously Presented) The ink jet head type droplet ejection device as claimed in claim 15, further comprising:
a piezoelectric element fixing member for connecting the longitudinal vibration mode piezoelectric elements to each other.

17. (Previously Presented) The ink jet head as claimed in claim 1, wherein a thickness of the vibrating plate is from 7 μm to 10 μm .

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18. (Previously Presented) The ink jet head type droplet ejection device as claimed in claim 5, wherein a thickness of the vibrating plate is from 7 μm to 10 μm .

19. (Currently Amended) An ink jet head comprising:

a chamber plate comprising at least one pressuring chamber formed therein for storing an ink;

a vibrating plate positioned on the chamber plate;

an orifice through which an ink is ejected from the pressuring chamber; and

a longitudinal vibration mode piezoelectric element for generating pressure under which an ink droplet is ejected through the orifice,

wherein the longitudinal vibration mode piezoelectric element expands or contracts when a potential difference is applied to the piezoelectric element.

20. (Previously Presented) The ink jet head as claimed in claim 19, further comprising: a plurality of longitudinal vibration mode piezoelectric elements.

21. (Previously Presented) The ink jet head as claimed in claim 20, further comprising:

a piezoelectric element fixing member for connecting the longitudinal vibration mode piezoelectric elements.

22. (Previously Presented) The ink jet head as claimed in claim 20, wherein a thickness of the vibrating plate is from 7 μm to 10 μm .

23. (Previously Presented) An ink jet head, comprising:

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a chamber plate comprising at least one pressurizing chamber formed therein for storing an ink;
a vibrating plate positioned on the chamber plate;
an orifice through which an ink is ejected from the pressurizing chambers; and
a piezoelectric element for generating pressure under which an ink droplet is ejected through the orifice,
wherein a ratio of the thickness of the vibrating plate to a width of the pressurizing chamber is not greater than 0.03.

24. (Previously Presented) The ink jet head as claimed in claim 23, wherein said piezoelectric element comprises a longitudinal vibration mode piezoelectric element.